SERVICE MANUAL

QUARTZ PLL SYNTHESIZER TUNER

SANSUI T-900/9

T-700/7001 (Silver & Black Model)



CAUTION

- 1. Parts identified by the Asymbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
- 2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.



SANSUI ELECTRIC CO., LTD.

SPECIFICATIONS

T-900/700	
FM Section	
Tuning range	88 to 108 MHz
Usable sensitivity Mono IHF	10.8 dB((1.9 vV - T-100)
DIN,	09 4
50 dB quieting sensitivity	
Mono	16.5 dBf
Stereo	
Signal to noise ratio at 65 dBf	
Mono	
Stereo	70 dB
Distortion at 65 dBf	
Mono	
Stereo	Less than 0.2% at 1,000 H
	55 dB
Stereo separation	. 40 dB at 1,000 Hz
Frequency response	30 to 15,000 Hz
Antenna input impedance	
	75 ohms unbalanced
AM Section	
Tuning range	. 530 to 1,600 kHz
Usable sensitivity (Loop antenna),	
Signal to noise ratio	
Image response ratio	. 40 dB at 1,000 kHz
Others	
Output voltage and impedance	. 500 mV/2.2 kohms
Power requirements	
For U.S.A. and Canada	. 120V (60 Hz)
Power consumption	. 10 watts
Dimensions	. 430 mm (16-15/16") W -
	78 mm (3-1/8") H
	225 mm (8-7/8") D
Weight	. 2.5 kg (5.5 lbs.) net
	3.2 kg (7.1 lbs.) packed ***
T 0001 (7001	
T-900L/700L	
FM Section	
Tuning range	. 88 to 108 MHz
Usable sensitivity Mono IHF	
MODO IHP	" 10's art (1'8 hΛ; 1-100)

Usable sensitivity	
Mono IHF	
DIN	
50 dB quieting sensitiv	ity
Mono	
Stereo	37.0 dBf
Signal to noise ratio at	
Mono	
Stereo	
Distortion at 65 dBf	
Mono	Less than 0.15% at 1,000 F
	Less than 0.2% at 1,000 H
Alternate channel selec	
	oc Jo

		*********	SERVINGENCE	CARAGONIANA	. 55 GB	
	d man and the same	THE REAL PROPERTY AND ADDRESS.				The Carlotte Committee
- 3	tereo se	paration			40 dB at	1,000 Hz
	requenc	y respor	ISP.		. 30 to 15,	000 Hz
18,833	TICH THE REAL PROPERTY.				+10 dR	-1.5 dB
Fire State	B 0 B			PURC 2005 FOR TH		
	ntenna	input in	nedance	Part Control of the	-300 ahm	s balanced
		Becommon and Chicago				
	Action and the con-			The same of the same of	75 ohme	unbalanced
en salut					A OHILLS	unparanteu

AM (MW, LW) Section

MW: 530 to 1,600 kHz LW: 153 to 281 kHz MW: 53 dB/m (446 μV/m) Tuning range............ Usable sensitivity LW: 62 dB/m Signal to noise ratio 45 dB MW: 40 dB at 1,000 kHz LW: 35 dB at 220 kHz Image response ratio

Others

Output voltage and impedance 500 mV/2.2 kohms Power requirements 220/240V (50/60 Hz); Power consumption 10Watts Dimensions

... 10Watts ... 430 mm (16-15/16") W 78 mm (3-1/8") H 225 mm (8-7/8") D .2.5 kg (5.5 lbs.) net 3.2 kg (7.1 lbs.) packed

Design and specifications subject to changes without notice for improvements.
Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selectors.

CAUTION

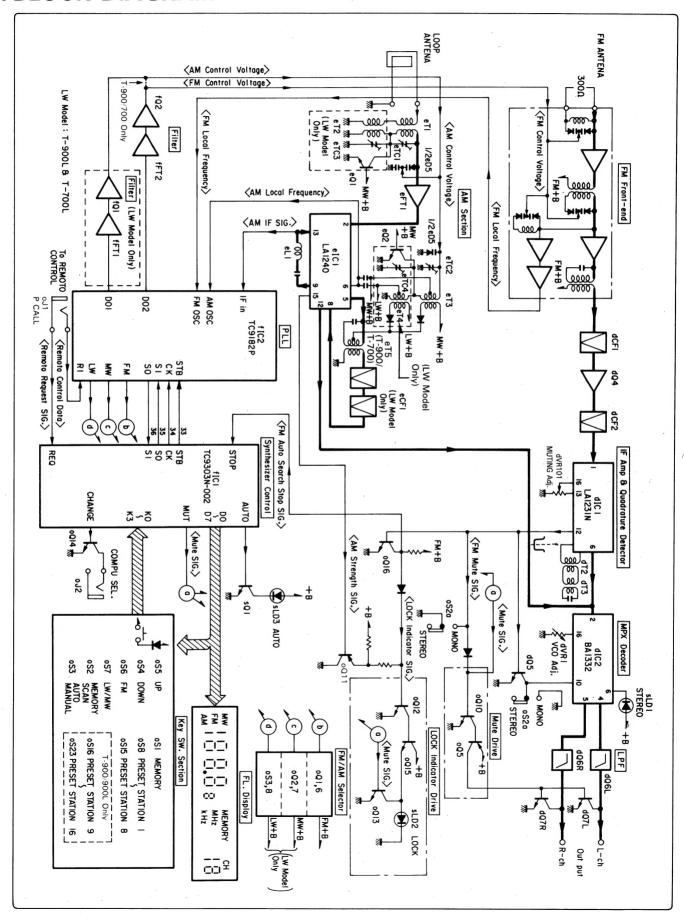
1. The symbols, UL, CSA, SA, BS, UK, EU, AS, XX < EXPORT> and XX-V < EXPORT(V)> on the parts list and the schematic diagram mean followings respectively.

UL								
	(Underwrite	ers Labora	tories	approve	d model.)			
CSA	Manufactu	Manufactured for Canadian market.						
SA	Manufactu	Manufactured for South African market.						
BS, UK	Manufactu	red for Ur	nited k	(ingdom	n market.			
EU	. Manufactured for European market.							
AS	Manufactu	red for Au	ıstralia	ın mark	et.			
XX <export></export>	Standard	Version	with	Inner	Voltage			
	Selector.							
XX-V < EXPORT(V) >	Standard	Version	with	Outer	Voltage			
	Selector.							
NON MARK	Common F	arts.						

- Some printed circuit boards are not supplied as the assembled.
 To separate these in this service manual, the stock No's are not indicated at the ends of the board names. However, the individual parts on the circuit boards are provided by orders.
- 3. Since some of capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors & resistors, which was issued on February 1983.
- 4. Abbreviations in this service manual are as follows.

- Abbi	reviations List ————	
C.R.	: Carbon Resistor	E.B.L. : Low Leak Bi-Polar
S.R.	: Solid Resistor	Electrolytic Capacitor
Ce.R.	: Cement Resistor	Ta.C.: Tantalum Capacitor
M.R.	: Metal Film Resistor	F.C. : Film Capacitor
F.R.	: Fusing Resistor	M.P. : Metalized Paper Capacitor
N.I.R.	: Non-Inflammable Resistor	P.C. : Polystyrene Capacitor
A.R.	: Array Resistor	G.C. : Gimmic Capacitor
C.C.	: Ceramic Capacitor	A.C. : Array Capacitor
C.T.	: Ceramic Capacitor,	V.R. : Variable Resistor
	Temperature Compensation	S.V.R. : Semi Variable Resistor
E.C.	: Electrolytic Capacitor	SW. : Switch
E.L.	: Low Leak Electrolytic	Chip R.: Chip Resistor
	Capacitor	Chip C.: Chip Capacitor
E.B.	: Bi-Polar Electrolytic	
	Capacitor	

1. BLOCK DIAGRAM



2. ADJUSTMENTS

2-1. FM Adjustment (See Top View on Page 10)

GENESCOPE Fig. 2-1 Point(E) STEREO SG SCOPE DUMMY ANTENNA OUT O DIST METER UNIT FM SSG 15KHz LPF 7 Point® OUT O EXT O-S IN OUT S AUDIO OSC Ceramic Capacitor Fig. 2-3 Freq. Counter □□□□□ Hz 1) FM IF & Reference Frequency Adjustment Point⊗ ground

			FEED SIGN	AL	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
STEP	SUBJECT		FROM	TO MEASURE OUTFOI		ADJUST	ADJOST TOR	KEWI/KKS
1.	Reference Frequency Adj. (T-900L/700L)		No Input		Between Point (A) (Pin 40 of fIC1) through 10pF Capacitor & Earth Freq. Counter •See Parts Location F-4841 on page 6	fTC1 (F-4841)	7.2MHz ± 500Hz	
2.	IF Coil Adj.		98MHz ANT Input 20dBf (14.8dB), 1kHz (100% MOD.), FM SSG	ANT terminal 300Ω	Between Point® (dVR101) & Earth DC Volt Meter •See Parts Location F-4839 on page 5	IFT Coil (Front-end, F-4839)	Max. DC Volt	
3.	Discriminator Coil Adj. In case of using Genescope	1	No Input		Between Point (Pin 7 of dIC1) & Point (Pin 10 of dIC1) DC Volt Meter •See Parts Location F-4853 on page 9	dT2 (F-4853)	DC 0V±30mV	Repeat procedures as stated in subject 1 & 2.
		2	Output 80dB, Genescope	Point® (dCF1)	Between Point (F) (Pin 6 of dIC1) & Earth •See Parts Location F-4853 on page 9	dT3 (F-4853)	Steep linearity of S curve. Make symmetrical S curve.	
٠.,.	Discriminator Coil Adj. In case of using Dist meter	1	No Input		Between Point© (Pin 7 of dIC1) & Point® (Pin 10 of dIC1) DC Volt Meter •See Parts Location F-4853 on page 9	dT2 (F-4853)	DC 0V±30mV	•Repeat procedures as stated in subject 1 & 2.
		2	98MHz ANT Input 65dBf (59.8dB), 1kHz (100% MOD.), FM SSG	ANT terminal 300Ω	•LINE OUT L-CH or R-CH Dist Meter & SCOPE	dT3, (F-4853)	Min. THD	

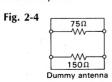
•ADJUSTMENT FOR FM

There are two kind in indication of FM SSG output attenuator

- 1. Attenuator with marking of 75Ω open open indication
- 2. Attenuator with marking of 75Ω load or close load or close indication type.

FM SG output level in this FM adjustment are described as open indication type.

To feed FM signal, a dummy antenna circuit as Fig. 2-3 must be connected between FM SG output and ANT terminal (300 Ω) of the unit.



The following table shows relations among FM SG attenuator indication (dB), available power ratio (dBf) and antenna terminal voltage (dB/μV) in each indication type.

Fig. 2-2

	FM SG	Available	Antenna
	Attenuator	Power	Terminal
	Indication	Ratio	Voltage
Open indication type	0 dB	-0.8 dBf	—6 dB/μV
	66 dB	65.2 dBf	60 dB/μV
Load or close indication type	0 dB	5.2 dBf	0 dB/μV
	60 dB	65.2 dBf	60 dB/μV

2) FM STEREO Adjustment

1. FM MODE......AUTO

		FEED SIGN	NAL			1	
STEP	SUBJECT	FROM	то	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	PLL VCO Adj.	98MHz ANT Input 65dBf (59.8dB), FM SSG, Pilot 19kHz (9% MOD.), R or L MODE 1kHz + Pilot (100% MOD.), STEREO SG	ANT terminal 300Ω	Stereo Indicator	dVR1 (F-4854)	Light indicator	•Adjust the dVR1 within center of light level
	PLL VCO Adj. In case of using Freq.	98MHz ANT Input 65dBf (59.8dB), FM SSG, No MOD.	Same as above	Between Point (© (Pin 12 of dIC2) & Earth Freq. Counter •See Parts Location F-4854 on page 9	dVR1 (F-4854)	19kHz±25Hz	
2.	Muting level Adj.	98MHz ANT Input 25dBf (19.8dB), FM SSG, Pilot 19kHz (9% MOD.), L or R MODE 1kHz+Pilot (100% MOD.), STEREO SG.	Same as above	Stereo indicator LINE OUT L-CH or R-CH VTVM & SCOPE	dVR101 (F-4839)	Stereo indicator turns ON or Output Signal comes out	

◆ Selection of Intermediate Frequencies (FM)

- When the central frequency (shown by a color) of the ceramic filter
- is changed, the following connection must be made by using diodes.

 Unity the color marks of the FM ceramic filters (dCF1, dCF2) on the F-4853 with the same color.

1. Europe & America

Colouring	Intermediate	Connecting Position of diodes on F-4841		
	frequency	fD27	fD28	
BLACK	10.650 MHz	0		
RED	10.700 MHz	0	0	
WHITE	10.750 MHz	_	0	

2. South Africa

BLACK	10.650 MHz		0
RED	10.700 MHz	0	0
WHITE	10.750 MHz	0	_

- • Abbreviations -

AM FM Generator Oscilloscope	Genescope
AM Standard Signal Generator	AM SSG
FM Standard Signal Generator	FM SSG
FM Stereo Generator	Stereo SG
Oscilloscope	
Audio Oscillator	Audio Osc.
Distortion Meter	Dist. Meter
Others	
Antenna	ANT.
Modulation	MOD.
Total Harmonic Distortion	T.H.D.

2-2. AM Adjustment (See Top View on Page 10)

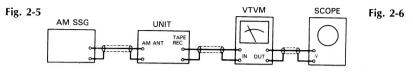


Fig. 2-6 GENESCOPE

1) AM IF Adjustment & MW (AM) Tuning Adjustment Note: 1. SELECTOR...... AM or MW

2. Connect AM loop antenna to AM antenna terminal.

STEP	SUBJECT	FEED SIGN	NAL				
3.21	SOBJECT	FROM	TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	IF Coil Adj.	Genescope Output 60dB	Point(H) (Pin 2 of eIC1) (F-4847)	Between Point() (Pin 12 of elC1) & Earth •See Parts Location F-4847 on page 8	eT5 (T-900/ 700), eCF1 (T-900L/700L), eL1 (F-4847)	Max, Waveform	
2.	522kHz (or 520kHz) Tuning Adj.	No Input		Between Point① (eR1) & Earth DC Volt Meter •See Parts Location F-4846 on page 8	eT3 (F-4846)	1V±0.1V	•Repeat procedures as stated in subject 2 & 3.
3.	1602kHz (or 1610kHz) Tuning Adj.	No Input		Same as above	eTC2 (F-4846)	8V±0.1V	
4.	603kH (or 600kHz) RF Adj.	603kHz (or 600kHz) ANT Input 30dB 400Hz (30% MOD.), AM SSG	ANT terminal	LINE OUT L-CH or R-CH VTVM & SCOPE	eT1 (F-4846)	Max. Output	
5.	1404kHz (or 1400kHz) RF Adj.	1404kHz (or 1400kHz) ANT Input 30dB 400Hz (30% MOD.), AM SSG	Same as above	LINE OUT L-CH or. R-CH VTVM & SCOPE	eTC1 (F-4846)	Max. Output	<i>J</i>

2) LW Tuning Adjustment (T-900L/700L only) (See Parts Location F-4846 on page 8) Note: SELECTOR......

STEP	SUBJECT	FEED SIGNAL					
JILI		FROM	то	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	153kHz Tuning Adj.	No Input		Between Point () (eR1) & Earth DC Volt Meter	eT4 (F-4846)	1V±0.1V	•Repeat procedures as stated in subject 1 & 2.
2.	281kHz Tuning Adj.	No Input		Same as above	eTC4 (F-4846)	8V±0.1V	
3.	170kHz RF Adj.	170kHz ANT Input 30dB 400Hz (30% MOD.), AM SSG	ANT terminal	LINE OUT L-CH or R-CH VTVM & SCOPE	eT2 (F-4846)	Max. Output	
4.	260kHz RF Adj.	260kHz ANT Input 30dB 400Hz (30% MOD.), AM SSG	Same as above	LINE OUT L-CH or R-CH VTVM & SCOPE	eTC3 (F-4846)	Max. Output	1

♦ NOTES-

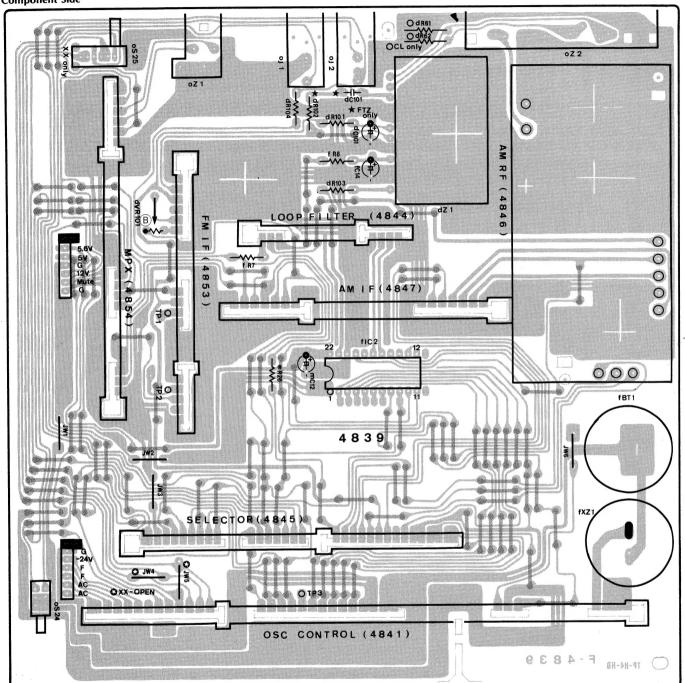
When the user moves to different channel step area on FM or AM, the following arrangements must be performed.

	Sets Applicable to	Channel Step Frequency		Parts (F-4841)				9k/10k
		АМ	FM	fD20	fD21	fD22	fD23	Switch oS25
	Europe	9kHz	50kHz		_	0	0	None
ı	America	10kHz	100kHz	_	_	_	_	None
	South Africa	9kHz	50kHz	0	0	0	_	None
II.	Sets which 9k/10k	9kHz	50kHz	_	0	0	_	9 kHz
	Switch is installed	10kHz	100kHz	_	0	0	_	10 kHz

•Note: 1) ○=Connect, -=Remove 2) oS25=AM 9k/10k Switch on F-4839

3. PARTS LOCATION & PARTS LIST

3-1. F-4839 FM Front end & PLL Synthesizer Board (Stock No. 00888501=T-900/700 XX, XX-V) (Stock No. 00888502=T-900/700 UL, CSA, AS & T-900L/700L) (Stock No. 00888504 = T-900/700 SA) Component Side

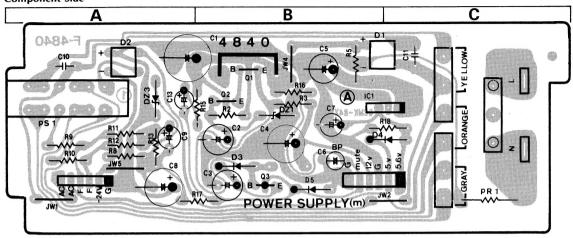


Parts List

aits List		
Parts No.	Stock No.	Description
dZ1	48183600	FM Frontend Pack (T-900/700 XX, XX-V, UL, CSA, AS & T-900L/700L)
	48183700	FM Frontend Pack (T-900/700 SA)
dVR101	07241300	10k Ω (B) S.V.R., Muting adj.
∆ dR101	46227800	10 Ω 1/2W N.I.R.
<u></u> eR26	46229000	100 Ω 1/2W N.I.R.
•IC	40161000	TC-9182P
fIC2	48161000	1C-9102F

Parts No.	Stock No.	Description
fBT1	46255500	Lithium Battery CR2430
oS24 oS25	46603000 46177200	Push SW., FM MUTING/MODE Slide SW., AM 9kHz/10kHz Selector (T-900/700 XX, XX-V)
oJ1 oJ2	46547200 46547200	Jack, REMOTE CONTROL Jack, COMPU SELECTOR
oZ1 oZ2	46438100 46547300	2P Terminal, LINE OUT 4P Terminal, Antenna

3-2. F-4840 Power Supply Board (Stock No. 00878301 = T-900/700 XX, XX-V, SA, AS & T-900L/700L) (Stock No. 00878302 = T-900/700 UL, CSA) **Component Side**

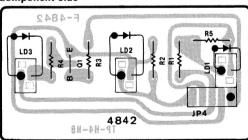


Parts	110
raris	LIS

Parts No.	Stock No.	Description	
Transistor			
∆ mQ1	03083901	2SD313AL	
\triangle	or 46546701	2SD880	
mQ2	46367101	2SC2603	
	or 46367301	2SC2458	
	or 46391901	2SC2785	
mQ3	46367001	2SA1115	
	or 46367201	2SA1048	
	or 46392001	2SA1175	
•IC			
∆mIC1	46144300	NJM78M06A	
\triangle	or 46361200	L78N06	
• Diode			
AmD1	46273600	DBB10-B	
∆mD1	46273600	DBB10-B	
mD3	03117600	1S2473T77	
כטווו	or 46086000	1S1588TP-3	
	01 40000000	10100011 0	

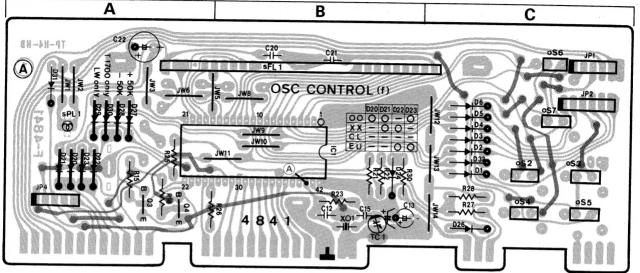
Parts No.	Stock No.	Description
mD4	03117600 or 46086000	1S2473T77 1S1588TP-3
mD5	03111600	1S2473
•Zener Diode		
mDZ1	46104000 or 46104100	05Z13-Y 05Z13-Z
mDZ3	46116000	05Z24-Y
∆mR2	46230200	1kΩ 1/2W N.I.R.
∆mR3 ∧mR5	46227600 46229000	6.8 Ω 1/2W N.I.R. 100 Ω 1/2W N.I.R.
∆mR8	46227800	10 Ω 1/2W N.I.R.
mC6	48108200	2.2μF 50V E.B.
∆ pS1	48186800	Push SW., POWER (T-900/700 XX, XX-V, SA, AS & T-900L/700L)
\triangle	48186900	Push SW., POWER (T-900/700 UL, CSA)

3-3. F-4842 AUTO, LOCKED & STEREO Indicator Board Component Side



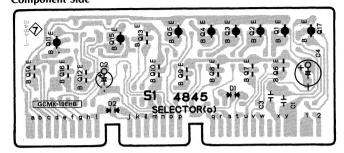
Parts No.	Stock No.	Description	
Transistor		·	
sQ1	46367101	2SC2603	
	or 46367301	2SC2458	
	or 46391901	2SC2785	
•LED			
sLD1	46176900	TLS-123	
sLD2	07250900	TLG-123A	
sLD3	07250900	TLG-123A	

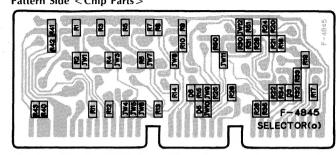
3-4. F-4841 PLL Synthesizer Control Board (Stock No. 00881901=T-900 XX, XX-V) (Stock No. 00881902=T-900 UL, CSA) (Stock No. 00881904 = T-900 SA) (Stock No. 00881905 = T-900L) (Stock No. 00878401 = T-700 XX, XX-V) (Stock No. 00878402 = T-700 UL, CSA) (Stock No. 00878404 = T-700 SA) (Stock No. 00878405 = T-700L)



	rts	

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
 Transistor 			fD23	03117600	
fQ3	46719900	DTC124	1023	03117600	1S2473T77
fQ4	46719900	DTC124		or 46086000	(T-900/700 AS & T-900L/700L)
				01 40000000	1S1588
•IC		•	fD24	03117600	(T-900/700 AS & T-900L/700L)
fIC1	48161100	TC-9303N-002	1024	or 46086000	1\$2473777
			fD26	03117600	1S1588TP-3 1S2473T77
fXO1	07237701	Quartz Element HC-18/U	1020	or 46086000	
			fD27	03117600	1S1588TP-3 1S2473T77
Diode			1027	or 46086000	
fD1	03117600	1S2473T77	fD28	03117600	1S1588TP-3
	or 46086000	1S1588TP-3	1020	or 46086000	1\$2473T77
fD2	03117600	1S2473T77	fD29	03117600	1\$1588TP-3
	or 46086000	1S1588TP-3	1020	or 46086000	1\$2473T77 (T-900L/700L)
fD3	03117600	1S2473T77	fD30	03117600	1S1588 (T-900L/700L)
	or 46086000	1S1588TP-3	1000	or 46086000	1\$2473T77 (T-900/900L)
fD4	03117600	1S2473T77	fD31	03117600	1S1588TP-3 (T-900/900L) 1S2473T77
	or 46086000	1S1588TP-3	1001	or 46086000	1S2473177 1S1588TP-3
fD5	03117600	1S2473T77	fD32	03117600	1S2473T77
	or 46086000	1S1588TP-3	1002	or 46086000	1S1588TP-3
fD6	03117600	1S2473T77		01 40000000	13136817-3
	or 46086000	1S1588TP-3	fC13	46643300	1000μF 6.3V E.C.
fD20	07176400	1S2473HS (T-900/700 SA)			1000µ1 0.07 E.C.
	or 03111800	1S1588 (T-900/700 SA)	oS2	46396700	Push SW., PRESET SCAN
fD21	03117600	1S2473T77	oS3	46396700	Push SW., AUTO/MANUAL
		(T-900/700 XX, XX-V, SA)	oS4	46396700	Push SW., DOWN
	or 46086000	1S1588TP-3	oS5	46396700	Push SW., UP
		(T-900/700 XX, XX-V, SA)	oS6	46396700	Push SW., FM
fD22	03117600	1S2473T77 (T-900/700 XX, XX-V,	oS7	46396700	Push SW., AM or MW/LW
	or 46086000	SA AS & T-900L/700L) 1S1588TP-3 (T-900/700 XX, XX-V,	sFL1	48182600	FL. Display Tube FG78M1GR
		SA, AS & T-900L/700L)	sPL1	48201600	Pilot Lamp



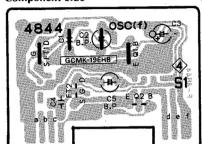


Parts	List

Parts No.	Stock No.	Description	
Transistor			
oQ1	46367001	2SA1115	
	or 46367201	2SA1048	
	or 46392001	2SA1175	
oQ4	46367001	2SA1115	
	or 46367201	2SA1048	
	or 46392001	2SA11.75	
oQ5	46367001	2SA1115	
	or 46367201	2SA1048	
	or 46392001	2SA1175	
oQ6	46367101	2SC2603	
040	or 46367301	2SC2458	
	or 46391901	2SC2785	
oQ9	46367101	2SC2603	
003	or 46367301	2SC2458	
	or 46391901	2SC2785	
oQ10	46367101	2SC2603	
0010	or 46367301	2SC2458	
	or 46391901	2SC2785	
0011		2SA1115	
oQ11	46367001	2SA1048	
	or 46367201		
-010	or 46392001	2SA1175	
oQ12	46367101	2SC2603	
	or 46367301	2SC2458	
0.10	or 46391901	2SC2785	
oQ13	46367101	2SC2603	
	or 46367301	2SC2458	
	or 46391901	2SC2785	
oQ14	46367101	2SC2603	
	or 46367301	2SC2458	
	or 46391901	2SC2785	
oQ15	46367001	2SA1115	
	or 46367201	2SA1048	
	or 46392001	2SA1175	
oQ16	46367101	2SC2603	
	or 46367301	2SC2458	
	or 46391901.	2SC2785	
oQ17	46367101	2SC2603	
	or 46367301	2SC2458	
	or 46391901	2SC2785	
• Diode			
oD1	46464000	MC921 (Chip)	
oD1	46464000	MC921 (Chip)	
oD2	46852000	RLS-73 (Chip)	
oD5	46852000	RLS-73 (Chip)	
		· ·	
oD6	46852000	RLS-73 (Chip)	
oJW1	46741100	Cross Conductor (Chip)	
oR1	46749200	4.7kΩ 1/8W Chip R.	
oR2	46750000	10k Ω 1/8W Chip R.	

Parts No.	Stock No.	Description	
		•	
oR7	46749200	4.7kΩ 1/8W Chip R.	
oR8	46750000	10kΩ 1/8W Chip R.	
oR9	46749200	4.7 k Ω 1/8W Chip R.	,
oR10	46750000	10k Ω 1/8W Chip R.	
oR11	46750000	10kΩ 1/8W Chip R.	
oR14	46750000	10kΩ 1/8W Chip R.	
oR15	46750000	10kΩ 1/8W Chip R.	
oR17	46750000	$10k\Omega$ 1/8W Chip R.	
oR18	46748200	1.8 k Ω $1/8$ W Chip R.	
oR19	46747000	560Ω 1/8W Chip R.	
oR20	46750800	22k Ω 1/8W Chip R.	
oR21	46749200	4.7 k Ω 1/8W Chip R.	
oR22	46749200	4.7k Ω 1/8W Chip R.	
oR25	46750000	10k Ω 1/8W Chip R.	
oR26	46752400	100k Ω 1/8W Chip R.	
oR28	46752400	100k Ω 1/8W Chip R.	
oR29	46749200	4.7 k Ω 1/8W Chip R.	
oR30	46749000	$3.9 \mathrm{k}\Omega$ 1/8W Chip R.	
oR31	46754600	820k Ω 1/8W Chip R.	
oR32	46750400	15k Ω 1/8W Chip R.	
oR33	46752200	$82k\Omega$ 1/8W Chip R.	
oR34	46750000	10k Ω 1/8W Chip R.	
oR35	46750000	10 k Ω 1/8W Chip R.	
oR40	46748800	$3.3k\Omega$ 1/8W Chip R.	
oR41	46747600	$1k\Omega$ 1/8W Chip R.	
oR42	46748800	3.3kΩ 1/8W Chip R.	
oR43	46747600	1kΩ 1/8W Chip R.	
oR50	46747400	820Ω 1/8W Chip R.	
oR51	46750800	$22k\Omega$ 1/8W Chip R.	
<t-900l 70<="" td=""><td>01 ></td><td></td><td></td></t-900l>	01 >		
• Transistor			
002	46367001	2SA1115	
002	or 46367201	2SA1048	
	or 46392001	2SA1175	
oQ3	46367001	2SA1115	
0025	or 46367201	2SA1048	
	or 46392001	2SA1046	
οQ7	46367301	2SC2458	
007	or 46367101	2SC2603	
-00	or 46391901 46367301	2SC2785 2SC2458	
8Do		2SC2400 2SC2603	
	or 46367101		
	or 46391901	2SC2785	
oR3	46749200	$4.7k\Omega$ 1/8W Chip R.	
oR4	46750000	$10k\Omega$ 1/8W Chip R.	
oR5	46749200	4.7kΩ 1/8W Chip R.	
oR6	46750000	10kΩ 1/8W Chip R.	
oR11	46750000	10kΩ 1/8W Chip R.	
oR12	46750000	10kΩ 1/8W Chip R.	

3-6. F-4844 Loop Filter Board (Stock No. 00888401 = T-900/700) (Stock No. 00888405 = T-900L/700L) Component Side Pattern Side < Chip Parts >

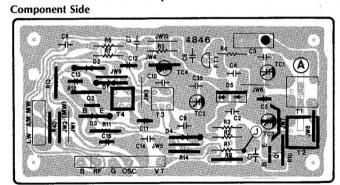


Parts List		
Parts No.	Stock No.	Description
Transistor		
fQ2	46367101	2SC2603
	or 46367301	2SC2458
	or 46391901	2SC2785
•FET		
fFT2	46643501	2SK163-K2
	or 46643502	2SK163-L1
	or 46643601	2SK117-Y
	or 46643602	2SK117-GR
fJW1	46741100	Cross Conductor (Chip)
fR9	46750800	22kΩ 1/8W Chip R.
fR10	46748000	1.5kΩ 1/8W Chip R.
fR12	46746400	330Ω 1/8W Chip R.
fR13	46746000	220Ω 1/8W Chip R.
	46749600	6.8k Ω 1/8W Chip R.
fR14	46/49600	O.OKM HOVY CHIP II.
fC5	48103500	2.2μF 50V E.B.
<t-900 700=""></t-900>	>	
fJW2	46741100	Cross Conductor (Chip)
		The second secon



Parts No.	Stock No.	Description
<t-900l 7<="" td=""><td>00L></td><td></td></t-900l>	00L>	
Transistor		
fQ1	46367101	2SC2603
	or 46367301	2SC2458
	or 46391901	2SC2785
fFT1	46643501	2SK163-K2
11 1 1	or 46643502	2SK163-K2 2SK163-L1
	or 46643601	2SK103-E1
	or 46643602	2SK117-1 2SK117-GR
	01 40043002	23K117-GH
fJW4	46741100	Cross Conductor (Chip)
fJW5	46741100	Cross Conductor (Chip)
fR1	46750800	22kΩ 1/8W Chip R.
fR2	46748600	2.7kΩ 1/8W Chip R.
fR4	46746000	220Ω 1/8W Chip R.
fR5	46746400	330Ω 1/8W Chip R.
fR6	46747600	1kΩ 1/8W Chip R.
fC2	48103400	1μF 50V E.B.

3-7. F-4846 AM RF Amp. Board (Stock No. 00878901 = T-900/700) (Stock No. 00878905 = T-900L/700L)



Parts	Lis

Parts No.	Stock No.	Description
•FET		
eFT1	46393000	2SK192A-Y
	or 46393001	2SK192A-GR
eD5	46146300	Variable Capacitance Diode KV1236Z2
eTC1	46162800	Trimmer Capacitor 20pF
	or 46437400	Trimmer Capacitor 20pF
eTC2	46162800	Trimmer Capacitor 20pF
	or 46437400	Trimmer Capacitor 20pF

Parts No.	Stock No.	Description
eT1	46394600	AM ANT Coil
eT3	48074300	MW OSC Coil
<t-900l 70<="" td=""><td>0L></td><td></td></t-900l>	0L>	
 Transistor 		
eQ1	46540801	2SC2878
eQ2	46540801	2SC2878
• Diode		
eD1	03117600	1S2473T77
	or 46086000	1S1588
eD2	03117600	1S2473T77
	or 46086000	1S1588
eD3	03117600	1S2473T77
	or 46086000	1S1588
eD4	03117600	1S2473T77
	or 46086000	1S1588
eTC3	46437400	Trimmer Capacitor 20pF
6100	or 46162800	Trimmer Capacitor 20pF
eTC4	46437400	Trimmer Capacitor 20pF
	or 46162800	Trimmer Capacitor 20pF
eT2	46397900	LW RF Coil
eT4	48074400	LW OSC Coil

3-8. F-4847 AM IF Amp. Board (Stock No. 00879001 = T-900/700) (Stock No. 00879005 = T-900L/700L)

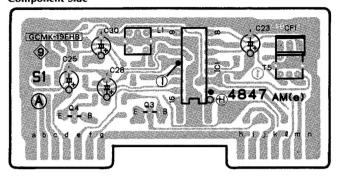
Component Side

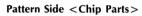
eR33

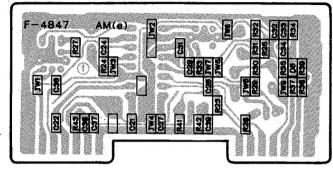
eR34

eR35

eR37







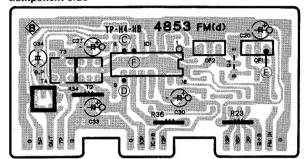
Parts No.	Stock No.	Description
 Transistor 		
eQ3	46202901	2SC1674
	or 46203001	2SC1675
eQ4	46367101	2SC2603
	or 46367301	2SC2458
	or 46391901	2SC2785
•IC		
eIC1	03608000	LA1240
Diode		
eD6	46852000	RLS-73 (Chip)
eJW2	46741100	Cross Conductor (Chip)
eR23	46751600	47kΩ 1/8W Chip R.
eR24	46747600	1kΩ 1/8W Chip R.
eR25	46745200	100Ω 1/8W Chip R.
eR27	46744400	47Ω 1/8W Chip R.
eR28	46750800	22kΩ 1/8W Chip R.
eR29	46748400	2.2kΩ 1/8W Chip R.
eR30	46750000	10k Ω 1/8W Chip R.
eR31	46750000	10k Ω 1/8W Chip R.
eR32	46747600	1kΩ 1/8W Chip R.
000	40745000	4000 410141 OL : D

46745200 46752400 46751800 46751600 100Ω 1/8W Chip R. 100kΩ 1/8W Chip R.

 $56k\Omega$ 1/8W Chip R. 47k Ω 1/8W Chip R.

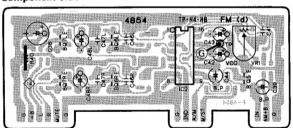
Parts No.	Stock No.	Description
eR38	46754400	680kΩ 1/8W Chip R.
eR39	46753200	220kΩ 1/8W Chip R.
eR41	46751200	33kΩ 1/8W Chip R.
eR42	46746400	330Ω 1/8W Chip R.
eR43	46748400	2.2kΩ 1/8W Chip R.
eC21	46794300	1000pF 50V Chip C.
eC22	46854500	0.022µF 50V Chip C.
eC24	46854500	0.022μF 50V Chip C.
eC26	46854500	$0.022\mu\text{F}$ 50V Chip C.
eC27	46854500	$0.022\mu F$ 50V Chip C.
eC29	46795500	$0.01\mu F$ 50V Chip C.
eC31	46795500	$0.01\mu F$ 50V Chip C.
eC32	46854900	$0.047\mu F$ 50V Chip C.
eC33	46794300	1000pF 50V Chip C.
eC34	46854900	$0.047\mu\text{F}$ 50V Chip C.
eC36	46795500	$0.01\mu F$ 50V Chip C.
eC37	46795500	0.01μF 50V Chip C.
eC38	46854500	0.022μ F 50V Chip C.
eC39	46854900	$0.047\mu\text{F}$ 50V Chip C.
eL1	46369600	AM IF Coil
<t-900 700=""></t-900>		
eT5	48069800	Ceramic Filter CFLZ450
<t-900l 700l<="" td=""><td>.></td><td></td></t-900l>	.>	
eCF1	48069900	Ceramic Filter

3-9. F-4853 FM IF Amp. Board (Stock No. 00903301) Component Side



Parts No.	Stock No.	Description
Transistor		• .
dQ4	46393201	2SC2786
•IC		
dIC1	07191200	LA1231N
Diode		
dD2	46852000	RLS-73 (Chip)
dJW1~6	46741100	Cross Conductor (Chip)
dR20	46745800	180Ω 1/8W Chip R.
dR21	46747000	560Ω 1/8W Chip R.
dR22	46747600	1kΩ 1/8W Chip R.
∆ dR23	46228700	56Ω 1/2W N.I.R.
dR24	46745200	100Ω 1/8W Chip R.
dR25	46747400	820Ω 1/8W Chip R.
dR26	46746600	390Ω 1/8W Chip R.
dR28	46746400	330Ω 1/8W Chip R.
dR29	46752400	100kΩ 1/8W Chip R.
dR30	46750000	10kΩ 1/8W Chip R.
dR31	46750200	12kΩ 1/8W Chip R.
dR32	46750400	15kΩ 1/8W Chip R.

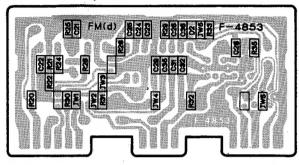
3-10. F-4854 FM MPX Board (Stock No. 00879701) Component Side



Parts List

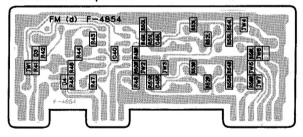
Parts No.	Stock No.	Description
Transistor		
dQ5	46367101	2SC2603
	or 46367301	2SC2458
•	or 46391901	2SC2785
dQ6	46367101	2SC2603
	or 46367301	2SC2458
	or 46391901	2SC2785
dQ7 `	46540801	2SC2878
•IC		
dIC2	48169300	BA1332
• Diode		
dD3	46852000	RLS-73 (Chip)
dD4	46852000	RLS-73 (Chip)
dJW1∼7	46741100	Cross Conductor (Chip)
40771	-107-11100	Cross Conductor (Crip)
∆dR40	46228200	22Ω 1/2W N.I.R.
dR41	46751200	33kΩ 1/8W Chip R.
dR42	46749800	8.2kΩ 1/8W Chip R.
dR43 .	46747600	1kΩ 1/8W Chip R.

Pattern Side < Chip Parts >



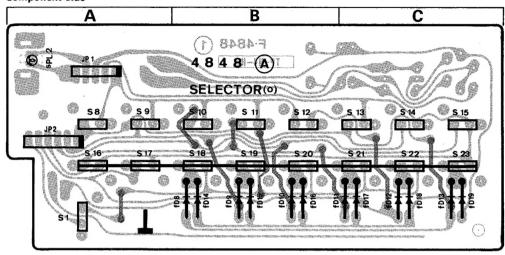
Parts No.	Stock No.	Description
dR33	46752400	100kΩ 1/8W Chip R.
dR35	46748800	3.3kΩ 1/8W Chip R.
∆ dR36	46228700	56Ω 1/2W N.I.R.
dC21 dC22 dC23 dC24 dC25 dC26 dC28 dC29 dC31 dC32 dC34 dC35	46854500 46854900 46854900 46854900 46854900 46778100 46854500 46854500 46854900 46854900 48102400 46796400	0.022μF 50V Chip C. 0.047μF 50V Chip C. 0.047μF 50V Chip C. 0.047μF 50V Chip C. 0.047μF 50V Chip C. 100pF 50V Chip C. 0.022μF 50V Chip C. 0.022μF 50V Chip C. 0.047μF 50V Chip C.
dCF1	46202500	Ceramic Filter SFE10.7MS2(RED)
dCF2	46202500	Ceramic Filter SFE10.7MS2(RED)
dT2	48072100	FM IF Coil
dT3	48072200	FM IF Coil

Pattern Side < Chip Parts >



Parts No.	Stock No.	Description
dR44 dR45 dR46 dR47 dR48 dR49 dR50 dR51 dR52 dR53 dR54	46750000 46750000 46750200 46751600 46747400 46749200 46748800 46747600 46747200 46745400 46752000 46747800	10kΩ 1/8W Chip R. 10kΩ 1/8W Chip R. 12kΩ 1/8W Chip R. 47kΩ 1/8W Chip R. 820Ω 1/8W Chip R. 4.7kΩ 1/8W Chip R. 3.3kΩ 1/8W Chip R. 1kΩ 1/8W Chip R. 1kΩ 1/8W Chip R. 120Ω 1/8W Chip R. 120Ω 1/8W Chip R.
dR55 dR56	46748800	$3.3k\Omega$ 1/8W Chip R.
dC39 dC40 dC44 dC45 dC46 dC47	48102400 46854900 48103400 46778300 46283100 46282800	4.7μF 25V E.B. 0.047μF 50V Chip C. 1μF 50V E.B. 120pF 50V Chip C. 0.015μF 50V F.C. 8200pF 50V F.C.
dVR1	07241200	5kΩ (B) S.V.R., V.C.O. adj.

3-11. F-4848 PRESET STATION SW. Board Component Side

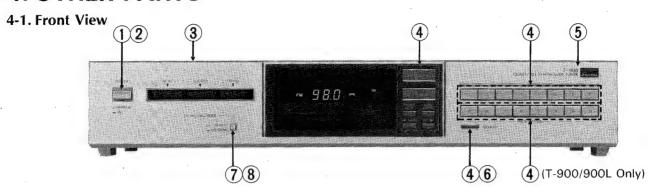


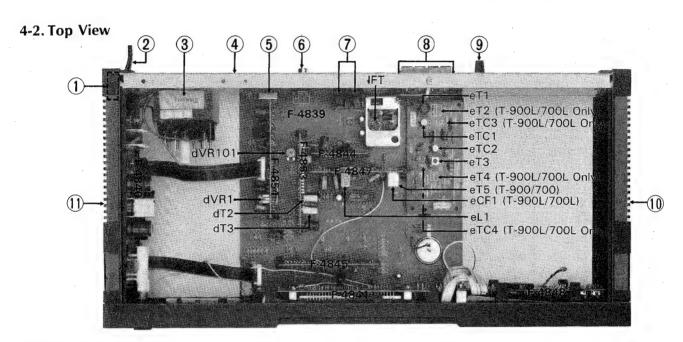
Parts List

Parts No.	Stock No.	Description
oS1	46396700	Push SW., MEMORY
oS8	46396700	Push SW., PRESET STATION 1
oS9	46396700	Push SW., PRESET STATION 2
oS10	46396700	Push SW., PRESET STATION 3
oS11	46396700	Push SW., PRESET STATION 4
oS12	46396700	Push SW., PRESET STATION 5
oS13	46396700	Push SW., PRESET STATION 6
oS14	46396700	Push SW., PRESET STATION 7
oS15	46396700	Push SW., PRESET STATION 8
sPL2	48201500	Pilot Lamp
<t-900 900<="" td=""><td>)L></td><td></td></t-900>)L>	
Diode		
fD8	03117600	1\$2473T77
	or 46086000	1S1588TP-3
fD9	03117600	1S2473T77
	or 46086000	1S1588TP-3
fD10	03117600	1S2473T77
	or 46086000	1S1588TP-3
fD11	03117600	1S2473T77
	or 46086000	1S1588TP-3
fD12	03117600	1S2473T77
	or 46086000	1S1588TP-3

Parts No.	Stock No.	Description
fD13	03117600	1S2473T77
	or 46086000	1S1588TP-3
fD14	03117600	1S2473T77
	or 46086000	1S1588TP-3
fD15	03117600	1S2473T77
	or 46086000	1S1588TP-3
fD16	03117600	1S2473T77
	or 46086000	1S1588TP-3
fD17	03117600	1\$2473T77
	or 46086000	1S1588TP-3
fD18	03117600	1S2473T77
	or 46086000	1S1588TP-3
fD19	03117600	1S2473T77
	or 46086000	1S1588TP-3
oS16	46396700	Push SW., PRESET STATION 9
oS17	46396700	Push SW., PRESET STATION 10
oS18	46396700	Push SW., PRESET STATION 11
oS19	46396700	Push SW., PRESET STATION 12
oS20	46396700	Push SW., PRESET STATION 13
oS21	46396700	Push SW., PRESET STATION 14
oS22	46396700	Push SW., PRESET STATION 15
oS23	46396700	Push SW., PRESET STATION 16

4. OTHER PARTS





Parts	List	<front< th=""><th>View></th></front<>	View>
--------------	------	--	-------

Parts No.	Stock No.	Description
1.2 △.2	48186800	Push SW., POWER (T-900/700 XX, XX-V, SA, AS & T-900L/700L)
\triangle	48186900	Push SW., POWER (T-900/700 UL, CSA)
4	46396700	Push SW., MEMORY, PRESET SCAN, AUTO/MANUAL, DOWN, UP, AM (T-900/ 700) or MW/LW (T-900L/700L), PRESET STATION 1~8, PRESET STATION 9~16 (T-900/900L Only)
6	47816400	Push Knob, MEMORY
8	46603000	Push SW., FM MUTING/MODE
<silver me<="" td=""><td>odel></td><td></td></silver>	odel>	
1	47747000	Push Knob, POWER
3	47879600	Bonnet
5	47865100	Front Panel Ass'y (T-900)
	47865300	Front Panel Ass'y (T-900L)
	47865800	Front Panel Ass'y (T-700)
	47866000	Front Panel Ass'y (T-700L)
7	47816000	Push Knob, FM MUTING/MODE
< Black Mo	odel>	
1	47747100	Push Knob, POWER
3	47879700	Bonnet
, 5	47865200	Front Panel Ass'y (T-900)
	47865400	Front Panel Ass'y (T-900L)
	47865900	Front Panel Ass'y (T-700)
	47866100	Front Panel Ass'y (T-700L)
7	07931600	Push Knob, FM MUTING/MODE

Parts List <Top View>

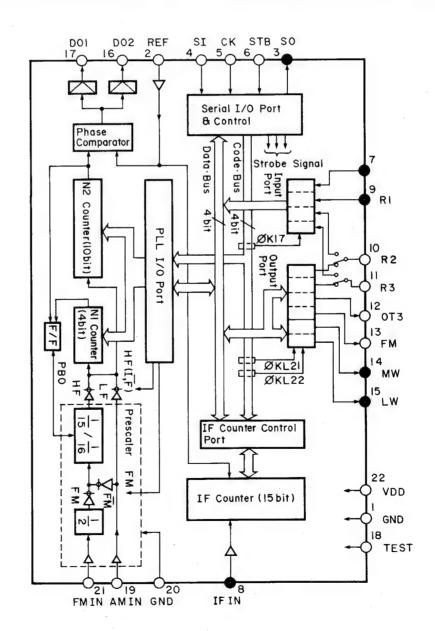
Parts	No.	Stock No.	Description
	1	47831100	AC Cord Cover
Δ	2	38005400	Power Supply Cord (T-900/700 XX, XX-V, SA)
\triangle		38004700	Power Supply Cord (T-900/700 UL, CSA
		38004500	Power Supply Cord (T-900L/700L EU)
\triangle		38004300	Power Supply Cord (T-900L/700L BS)
\triangle		07204200	Power Supply Cord (T-900/700 AS)
\triangle	3	15020301	Power Transformer (T-900/700 XX, SA
\triangle		15020309	Power Transformer (T-900/700 XX-V)
\triangle		15020302	Power Transformer (T-900/700 UL, CSA
\triangle		15020305	Power Transformer (T-900/700 AS & T-900L/700L)
\triangle	4	07204700	Slide SW., Voltage Selector (T-900L/700L
\triangle		48175200	Plug, Voltage Selector (T-900/700 XX-V
	5	46177200	AM 9 kHz/10 kHz Selector (T-900/700 XX, XX-V)
	6	46438100	2P Terminal, LINE OUT
	7	46547200	Jack, REMOTO CONTROL, COMPU SELECTOR
	8	46547300	4P Terminal Antenna
	9	22301510	Ground Terminal
	10	47873000	Right Side Panel Ass'y < Silver Model >
		47873100	Right Side Panel Ass'y < Black Model >
1	11	47872800	Left Side Panel Ass'y < Silver Model >
		47872900	Left Side Panel Ass'y < Black Model >

5. DESCRIPTION OF PLL SYNTHESIZER & THE CONTROL IC

A. Terminal Function of PLL Synthesizer IC, TC-9182P

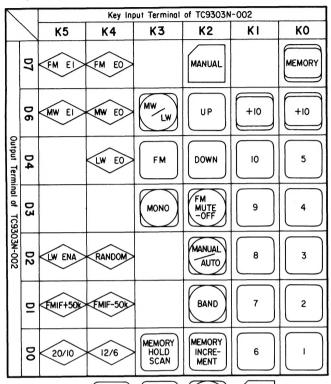
Pin No.	Symbols on substate	Functions					
2	REF	Reference frequency signal input terminal					
3 4 5 6	SO SI CK STB	Serial data output terminal Serial data input terminal Clock signal input terminal Strobe signal input terminal •Terminals to input/output serial data for frequency divider, IF counter and I/O port controller from/to TC-9303N-002 PLL syn- thesizer control IC.					
8	`IF _{IN}	Terminal to input IF signal for performing the automatic search stop.					
9 10 11	R1 R2 R3	Terminals to input signals from the remote controller. 7-kind key input instructions are available in combination with TC-9303N-002.					

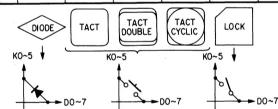
Pin No.	Symbols on substate	Functions			
13 14 15	FM MW LW	Band selector signal output terminal			
16 17	DO ₂ DO ₁	Terminals to output a signal from a phase comparator.			
18	TEST	Terminal to input a signal of test mode.			
19	AMIN	Terminal to input a signal from the AM local OSC.			
20	GND	Ground terminal for prescaler			
21	FMIN	Terminal to input a signal from the FM local OSC.			
22	VDD	Power supply terminals. 5V±0.5V			
1	GND	Ground terminal			



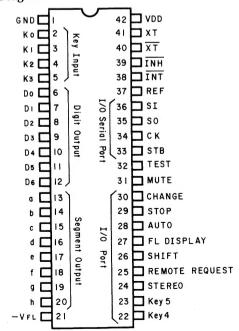
1. Various Key Matrix Functions

•Kev Matrix





Chip Diagram



Reception Range

		Desti-	KEY M	ATRIX	Reception I		Step
		nation	Eo	E1	песерион		(kHz)
		USA	0	0	87.5~108.0	+	100
	F	EU	1	0	87.50~108.00	+	50
	M	Japan	0	1	76.0~90.0		100
	Ì	SABS	1	1	87.50~108.00	_	50
	м	USA	0	0	530~1610		10
		EU	1	0	522~1611		9
	w	SAUDI	0	1	531 ~ 1602		9
		Japan	1	1	522~1629		9
	L		0	_	153~281		1
	w		1	_	153~360		1

•FM IF Shift/Offset

a) When SHIFT port is at "H" input, FM IF is always offset as shown by Table below.

KEY M	ATRIX	LOCAL UP	LOCAL LOW	
_50kHz> +50kHz>		USA, EU	Japan, SABS	
_	_	10.70 MHz	10.70 MHz	
0	_	10.65	10.75	
_	0	10.75	10.65	
0	0	10.70	10.70	

Band Selection

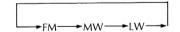
a) When FM key is depressed in MW or LW, FM is set. When FM key is depressed in FM band, only CHANGE output

b) In the absence of WENA diode:

- (1) When MW/LW key is depressed in FM, MW is set. When MW/LW key is depressed in MW, only CHANGE output is set to "H"
- (2) When BAND key is depressed or when remote control BAND is requested, FM changes to MW or vice versa cyclically for each one-depression or for each request.

c) In the presence of WENA diode:

- (1) When MW/LW key is depressed in FM, FM changes to MW by the first depression, and thereafter LW changes to MW or vice versa cyclically for each depression.
- (2) When BAND key is depressed or when remote control BAND is requested, the reception band changes in sequence as shown below for each depression or for each request:



Auto-Search Tuning

Tuning operation stops in case where a stop signal is detected in Auto-Search Tuning operated by depressing UP or DOWN key.

- •Manual Tuning
 a) When UP or DOWN key is depressed, tuning advances one step for each depression (one step/one push).
- b) If the key is kept depressed for 0.5 seconds or more, one step/one push tuning changes to continuous tuning. However, when the key is released, the tuning operation stops.
- c) When tuning reaches one band edge, the tuning operation jumps to another band edge. After a stop interval of 5 seconds, tuning returns to one step/one push tuning or continuous tuning.

Preset Memory

b) Access to Preset Memory

Preset memory can be accessed by depressing any one of M1 to M10 keys or Mn and +10 keys simultaneously.

Note) Accessable by depressing either or both of +10 keys (D6-K0, D6-K1).

d) Writing

When MEMORY key is kept depressed, MEMORY and CH indications blink at 0.5-sec intervals. When Mn key is depressed simultaneously with MEMORY key kept depressed, the present frequency is written in the memory, MEMORY indication going off and CH indication coming on.

Memory Hold Scanning

Broadcast is received in order while reading data stored in each preset memory 5 seconds by seconds.

Memory Increment

Broadcast is received while reading data stored in each preset memory

Remote Control Request input port of TC-9303N and Data R1, R2, R₃ uboyr oier id TC-9182P.

2. I/O Port Functions

• Remote Control Input

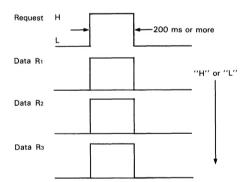
1. Main function

7-kind key input instructions are available in combination with TC

2. Input Port

Remote Control Request input port of TC-9303N and Data R₁, R₂, R₃ input port of TC-9182P.

3. Input signals



These request signals are always monitored. All the key input instructions are inhibited when a request signal is at "H". Remote control instructions have priority over others. A continuous signal is usable for manual up/down tuning operation.

4. Functions

Input Port		ort	Function				
Rı	R ₂	Rз	Function				
1	1	1	NOP Only CHANGE Output				
1	1	0	BAND				
0	1	0	MEMORY INCREMENT				
0	0	1	MONO⇔STEREO Cyclic				
1	0	1	MUTE OFF↔ON Cyclic				
0	1	1	DOWN Continuous				
0	0	0	UP Continuous				
1	0	0	MANUAL↔AUTO Cyclic				

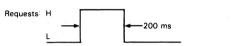
- (a) NOP is an input function for designating tuners and outputs only a CHANGE output.
- (b) The other functions are the same as these of TACT input key.

Mute Output

System Mute Time	
1. When INH changes from "L" to "H":	1.5 sec
2. When band is switched:	1.0 sec
3. When memory is accessed (in the same band):	$0.5 \sim 1 \text{ se}$
4. In FM MANUAL tuning:	0.5 sec
5. In MW, LW MANUAL tuning:	0.2 sec
6. In AUTO-Tuning Stop:	0.5 sec
7. When INH changes from "H" to "L":	0.1 sec

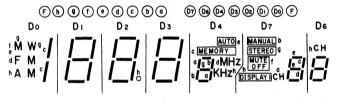
• CHANGE Output (For Compuselector signal)

- 1. When INH changes from "L" to "H".
- 2. When each input key is depressed normally.
- 3. When a band key corresponding to the presently received band is depressed
- 4. When remote control REQUEST changes to "H" (inclusive of NOP)

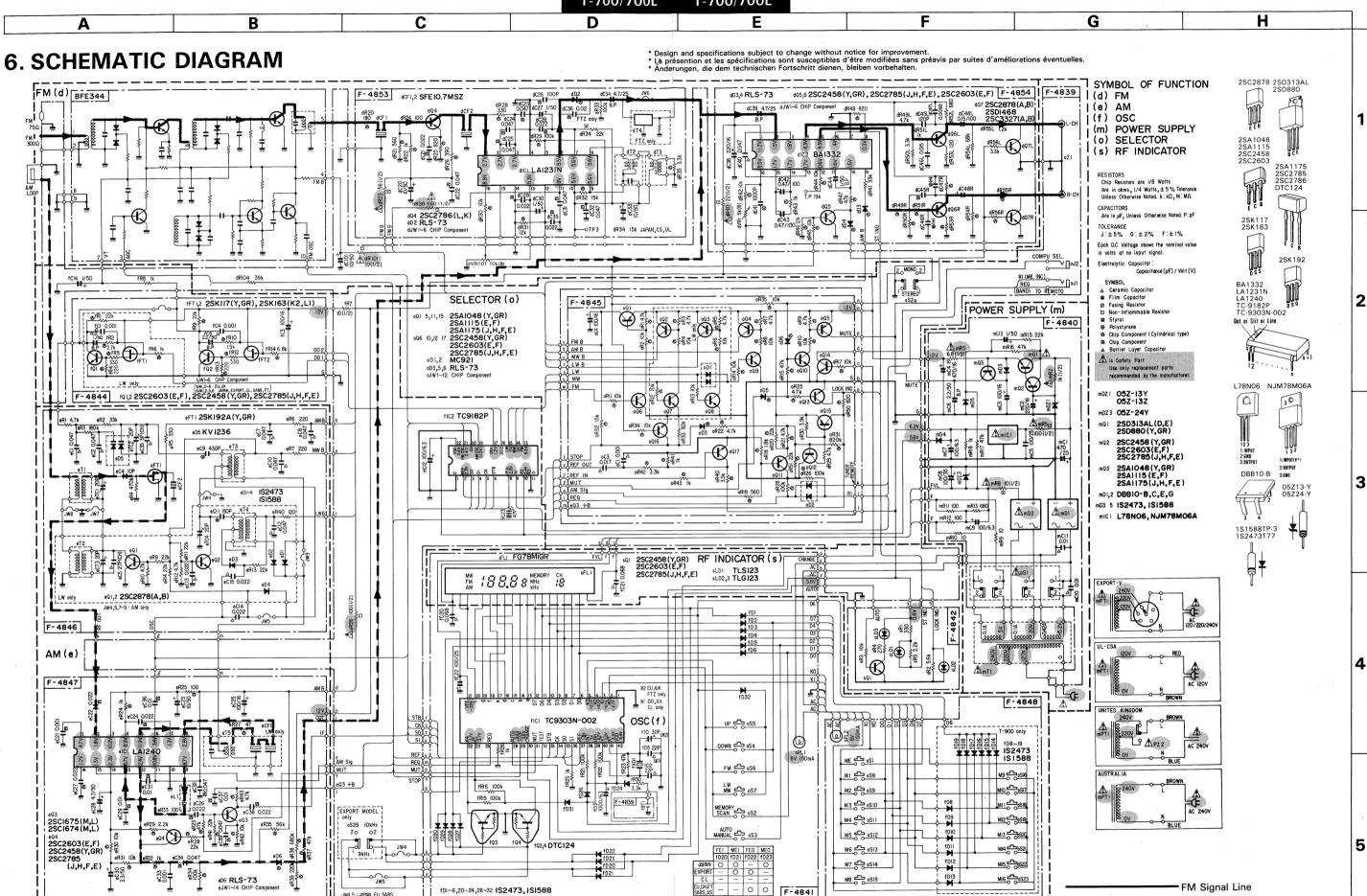


Note) CHANGE is not outputted when INH changes from "H" to

•Indication by Digits and Segments



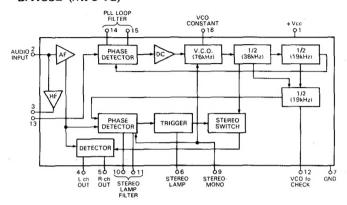
				Di	git Outp	ut		
`	/	Do	D ₁	D ₂	Dз	D4	D 7	D ₆
	а	-	а	а	а	\exists	СН	а
	b	_	b	b	b	θ	MANUAL	b
Sec	С	8	С	С	С	MEMORY	8	С
Segment	d	FM	d	d	d	MHz	B	d
t Output	е		е	е	е	AUTO	E	е
tput	f	MW	f	f	f		MUTE OFF	f
	g	MW	g	g	g	8.	STEREO	g
	h	AM		•		kHz	DISPLAY1	СН



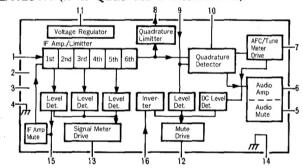
- AM Signal Line

7. INTERIOR BLOCK DIAGRAM OF IC

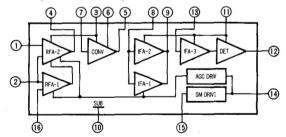
•BA1332 (MPS IC)



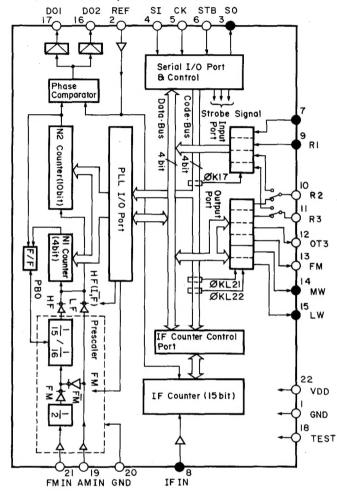
•LA1231N (IF & Quadrature Detector IC)



•LA1240 (AM Tuner IC)

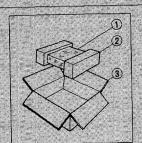


•TC-9182P (PLL Synthesizer IC)



8. PACKING LIST

Parts No.	Stock No.	Description	
1.1.1	47859300	Vinyl Bag	
2	07965300	Styrofoam Packing	
<silver mode<="" th=""><td></td><td></td></silver>			
3	47830000	Carton Case	
		(T-900 XX, UL, CSA, SA, AS)	
	47810000	Carton Case	
		(T-700 XX, UL, CSA, SA, AS)	
	47830200	Carton Case (T-900 XX-V)	
	47810200	Carton Case (T-700 XX-V)	
	47830400	Carton Case (T-900L)	
	47810400	Carton Case (T-700L)	
<black mode<="" th=""><td>1></td><td></td></black>	1>		
3	47830100	Carton Case	
		(T-900 XX, UL, CSA, SA, AS)	
	47810100	Carton Case	
		(T-700 XX, UL, CSA, SA, AS)	
	47830300	Carton Case (T-900 XX-V)	
	47810300	Carton Case (T-700 XX-V)	
	47830500	Carton Case (T-900L)	
	47810500	Carton Case (T-700L)	



9. ACCESSORY LIST

Stock No.	Description
46145700	AM Loop Antenna
48181400	Mini Pin Plug Cord
46051700	FM-Antenna
38103200	Pin Plug Cord
07563000	Antenna Holder
46968600	Operating Instruction
	(T-900/700)
46968700	Operating Instruction
	(T-900L/700L)

•Note: XX-V < EXPORT (V) > Standard Version with Outer Voltage Selector.

("V" mark is indicated on the carton case.)



SANSUI ELECTRIC CO., LTD.:

SANSUL ELECTRONICS CORPORATION

SANSUI ELECTRONICS (U.K.) LTD. SANSUI ELECTRONICS G.M.B.H. 14.1. Izumi 2-chome, Suginami-ku, Tokyo 168 Japan
PHONE: 1031 324-8891/TELEX: 232-2076 (International Division)
1250 Valley Brook Ave. Lyndhurst, N. J. 07071 U.S.A.
17150 South Margay Ave. Carson California 90746 U.S.A.
3036 Koapaka Street Honolulu, Hawaii 96819 U.S.A.
Unit 10A, Lyon Industrial Estate, Rockware Avenue, Geenford, Middx UB6, DAA, England
Pau Ehrich Strasse 8: 6074 Rödermark 2: West Germany